

a container containing at least one polynucleotide having at least 95% identity over the entire length of a sequence selected from the group consisting of SEQ ID NOS: 1-12.

46. A purified polynucleotide, wherein said polynucleotide has at least 95% identity over the entire length of a sequence selected from the group consisting of SEQ ID NOS: 1-12.

47. The purified polynucleotide of claim 46, wherein said polynucleotide is produced by recombinant techniques.

48. The purified polynucleotide of claim 46, wherein said polynucleotide is produced by synthetic techniques.

C1 49. The purified polynucleotide of claim 46, wherein said polynucleotide comprises a sequence encoding at least one epitope.

50. A recombinant expression system comprising:  
a nucleic acid sequence that includes an open reading frame operably linked to a control sequence compatible with a desired host, wherein said nucleic acid sequence has at least 95% identity over the entire length of a sequence selected from the group consisting of SEQ ID NOS: 1-12.

51. A cell transfected with the recombinant expression system of claim 50.

52. A method for producing a polypeptide comprising at least one epitope, said method comprising:

incubating host cells that have been transfected with an expression vector containing a polynucleotide sequence encoding a polypeptide, wherein said polypeptide

comprises an amino acid sequence having at least 95% identity over the entire length of an amino acid sequence selected from the group consisting of SEQ ID NOS: 25-29.

53. A cell transfected with a nucleic acid sequence encoding at least one epitope, wherein said nucleic acid sequence is selected from the group consisting of SEQ ID NOS: 1-12.

54. A composition of matter comprising a polynucleotide wherein said polynucleotide has at least 95% identity over the entire length of a polynucleotide selected from the group consisting of SEQ ID NOS: 1-12.

55. The test kit of claim 45 further comprising:  
a container with tools useful for collection of said sample, wherein the tools are selected from the group consisting of lancets, absorbent paper, cloth, swabs and cups.

56. A purified polynucleotide which codes for a protein having an amino acid sequence with at least 95% identity over the entire length of SEQ ID NO: 25.

57. A purified polynucleotide comprising DNA having at least 95% identity over the entire length of a polynucleotide selected from the group consisting of:  
SEQ ID NO: 11 and SEQ ID NO: 12.

58. A test kit useful for detecting polynucleotide in a test sample, comprising:  
a container containing at least one purified polynucleotide selected from the group consisting of SEQ ID NOS: 1-12 and degenerate codon equivalents thereof.

59. The test kit of claim 58 further comprising:  
a container with tools useful for collection of said sample, wherein the tools are selected from the group consisting of lancets, absorbent paper, cloth, swabs and cups.

60. An isolated DNA molecule consisting of SEQ ID NOS: 1-12 and equivalent degenerate codon sequences thereof.

61. The isolated DNA molecule of claim 60 wherein the DNA molecule is produced by recombinant techniques.

62. The isolated DNA molecule of claim 60 wherein the DNA molecule is produced by synthetic techniques.

63. The isolated DNA molecule of claim 60 wherein the DNA molecule comprises a sequence encoding at least one antigenic determinant of a polypeptide.

64. A recombinant expression system comprising:  
a purified nucleic acid sequence that includes an open reading frame operably linked to  
a control sequence compatible with a desired host, wherein the purified nucleic acid is selected from the group consisting of SEQ ID NOS: 1-12 and degenerate codon equivalents thereof.

65. A cell transfected with the recombinant expression system of claim 64.

66. A recombinant expression system comprising:  
an isolated DNA molecule that includes an open reading frame operably linked to a control sequence compatible with a desired host, wherein the isolated DNA molecule is selected from the group consisting of SEQ ID NOS: 1-12 and degenerate codon equivalents thereof.

67. A cell transfected with the recombinant expression system of claim 66.

68. A method for producing a polypeptide comprising at least one epitope, said method comprising:

incubating host cells that have been transfected with an expression vector containing a polynucleotide sequence encoding a polypeptide, wherein the polynucleotide sequence is selected from the group consisting of SEQ ID NOS: 25-29 and degenerate codon equivalents thereof.

69. A method for producing a polypeptide comprising at least one epitope, said method comprising:

C1 incubating host cells that have been transfected with an expression vector containing a polynucleotide sequence encoding a polypeptide, wherein the polynucleotide sequence encodes a polypeptide selected from the group consisting of SEQ ID NOS: 25-29 and degenerate codon equivalents thereof.

70. A cell transfected with an isolated DNA molecule encoding at least one epitope, wherein the isolated DNA molecule is selected from the group consisting of SEQ ID NOS: 1-12.

71. A composition of matter comprising an isolated DNA molecule selected from the group consisting of SEQ ID NOS: 1-12.

72. A purified polynucleotide sequence encoding a polypeptide having an amino acid sequence selected from the group consisting of SEQ ID NOS: 25-29 and degenerate codon equivalents thereof.

73. A purified polynucleotide sequence which codes for a protein having an amino acid sequence corresponding to SEQ ID NO: 25 and degenerate codon equivalents thereof.